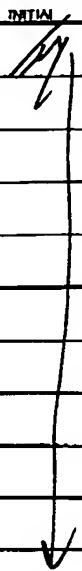
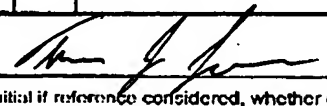






<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 018.997703		SERIAL NO. 10/729,628	
				I'ai et al.			
				FILING 12/4/2003		GROUP 3737	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	3,830,240	8/20/1974	Antonevich et al.	128	328	7/21/1972	
	3,861,391	1/21/1975	Antonevich et al.	128	328	3/20/1974	
	4,016,436	4/5/1977	Shoh	310	8.2	12/10/1975	
	4,180,074	12/25/1979	Murry et al.	128	276	3/15/1977	
	4,472,840	9/25/1984	Jefferies	3	1.9	9/30/1982	
	4,537,511	8/27/1985	Frei	366	127	3/28/1984	
	4,600,005	7/15/1986	Hendel	128	304	8/22/1984	
	4,657,548	4/14/1987	Nichols	623	10	5/1/1986	
	4,747,820	5/31/1988	Hornlein et al.	604	22	4/9/1986	
	4,870,953	10/3/1989	DonMichael et al.	128	24	11/13/1987	
V	4,881,761	11/21/1989	Hornlein et al.	285	239	5/26/1988	
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Portinent Pages, Etc.)</b>							
EXAMINER			DATE CONSIDERED				
			12/12/07				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 018.997703		SERIAL NO. 10/729,628	
				Pal et al.			
				FILING 12/4/2003		GROUP 3737	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE OR APPROPRIATE
		4,951,653	8/28/1990	Fry et al.	128	24	3/2/1988
		4,988,334	1/29/1991	Hornlein et al.	604	22	5/26/1988
		5,111,822	5/12/1992	Dory	128	660.03	5/16/1989
		5,152,763	10/6/1992	Johnson	606	86	4/2/1991
		5,230,334	7/27/1993	Klopotch	128	399	1/22/1992
		5,240,675	8/31/1993	Wilk et al.	422	22	9/24/1992
		5,295,484	3/22/1994	Marcus et al.	128	660.03	5/19/1992
		5,304,115	4/19/1994	Pflueger, Russell et al.	604	22	1/11/1991
		5,344,435	9/6/1994	Turner et al.	607	101	11/5/1990
		5,368,037	11/29/1994	Eberle et al.	128	662.06	2/1/1993
	5,513,662	5/7/1996	Morse et al.	128	898	1/21/1994	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
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				Pal et al.			
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<b>U.S. PATENT DOCUMENTS</b>							
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	5,549,638	8/27/1996	Burdette	607	97	5/17/1994	
	5,551,448	9/3/1996	Matula et al.	128	897	7/21/1994	
	5,556,379	9/17/1996	Wolfenbarger	604	49	2/27/1995	
	5,601,526	2/11/1997	Chapelon et al.	601	3	12/21/1992	
	5,657,760	8/19/1997	Ying et al.	128	660.03	1/11/1996	
	5,695,500	12/9/1997	Taylor et al.	606	130	4/6/1994	
	5,697,932	12/16/1997	Smith et al.	606	80	11/9/1994	
	5,711,299	1/27/1998	Manwaring et al.	128	653.1	1/26/1996	
	5,725,478	3/10/1998	Saad	600	157	3/14/1996	
	5,730,372	3/24/1998	Bradley	241	29	4/29/1996	
	5,730,719	3/24/1998	Edwards	604	22	8/28/1996	
<b>FOREIGN PATENT DOCUMENTS</b>							
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				Pat et al.			
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	5,779,644	7/14/1998	Eberle et al.	600	463	9/11/1996	
	5,797,871	8/25/1998	Wolfenbarger, Jr.	604	49	5/7/1996	
	5,810,765	9/22/1998	Oda	604	31	6/5/1995	
	5,820,581	10/13/1998	Wolfenbarger, Jr.	604	49	3/21/1996	
	5,871,514	2/16/1999	Wiklund et al.	607	36	8/1/1997	
	5,871,515	2/16/1999	Wiklund et al.	607	36	8/27/1998	
	5,897,578	4/27/1999	Wiklund et al.	607	36	8/27/1998	
	5,902,264	5/11/1999	Toso et al.	604	27	4/25/1997	
	5,919,215	7/6/1999	Wiklund et al.	607	36	8/27/1998	
	5,938,615	8/17/1999	Eberle et al.	600	463	9/23/1997	
	5,950,629	9/14/1999	Taylor et al.	128	897	4/28/1994	
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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**INFORMATION DISCLOSURE CITATION**  
 (Use several sheets if necessary)

ATTY DOCKET NO.

018,997703

APPLICATION NO.

10/729,628

APPLICANT(S)

Pal et al.

FILING DATE

12/04/2003

GROUP ART UNIT

3737

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	3,619,671	11/9/1971	Shoh	310	325	12/29/1969
	3,830,240	8/20/1974	Antonevich et al.	128	328	7/21/1972
	3,861,391	1/21/1975	Antonevich et al.	128	328	3/20/1974
	4,016,436	4/5/1977	Shoh	310	8.2	12/10/1975
	4,180,074	12/25/1979	Murry et al.	128	276	3/15/1977

**U.S. PATENT APPLICATION PUBLICATIONS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>M</i>	WO 92 07687 A	5/14/1992	PCT	B24B	1/04		<input checked="" type="checkbox"/>

**OTHER DOCUMENTS (Including Author, Title, Date, Portinent Pages, Etc.)**

<i>M</i>		C.V. Piltyn et al.; "Ultrasonic Equipment for Machining Holes on Drilling Machines" 1980, Stanki I Instrument, Vo. 51, Issue 4, pp. 31-32
<i>M</i>		John Mortimer; "Ultrasonics Will Machine Tomorrow's Materias" 1/15/1970, The Engineer

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DATE CONSIDERED

12-12-07

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 Form PTO-A820  
 (also form PTO-1449)

10/20/RLV01

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PAGE 1 OF 11

PAGE 4/58 \* RCVD AT 8/31/2004 2:44:28 PM [Eastern Daylight Time] \* SVR:USPTO-EF-XRF-1/0 \* DNS:8729306 \* CSID:7166645606 \* DURATION (mm:ss):15:04



<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 018.997703		APPLICATION NO. 10/729.628		
				Pal et al. FILING 12/04/2003		GROUP ART 3737		
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4,870,953	10/3/1989	DonMichael et al.	128	24	11/13/1987	
		4,881,761	11/21/1989	Hornlein et al.	285	239	5/26/1988	
		4,951,653	8/28/1990	Fry et al	128	24	3/2/1988	
		4,988,334	1/29/1991	Hornlein et al.	604	22	5/26/1988	
		5,111,822	5/12/1992	Dory	128	660.03	5/16/1989	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
EXAMINER				DATE CONSIDERED				
				12-12-07				
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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 018.997703		APPLICATION NO. 10/729.628	
				Pal et al.		GROUP ART 3737	
				FILING 12/04/2003			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,152,763	10/6/1992	Johnson	606	86	4/2/1991	
	5,230,334	7/27/1993	Klopotek	128	399	1/22/1992	
	5,240,675	8/31/1993	Wilk et al.	422	22	9/24/1992	
	5,295,484	3/22/1994	Marcus et al.	128	660.03	5/19/1992	
	5,304,115	4/19/1994	Pfueger, Russell et al.	604	22	1/11/1991	

U.S. PATENT APPLICATION PUBLICATIONS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			

EXAMINER	DATE CONSIDERED 12/12/07
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 600; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 018,997703		APPLICATION NO. 10/729,628	
				Pal et al.			
				FILING 12/04/2003		GROUP ART 3737	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
↓	5,344,435	9/6/1994	Turner et al.	607	101	11/5/1990	
	5,368,037	11/29/1994	Kherle et al.	128	662.06	2/1/1993	
	5,513,662	5/7/1996	Morse et al.	128	898	1/21/1994	
	5,549,638	8/27/1996	Burdette	607	97	5/17/1994	
	5,551,448	9/3/1996	Matula et al.	128	897	7/21/1994	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
EXAMINER			DATE CONSIDERED 12-12-07				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 800; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Docket Number (Optional) <b>018.997703</b>		Application Number <b>10/729,628</b>	
	Applicant(s) <b>Pal et al.</b>			
	Filing Date <b>12/4/03</b>		Group Art Unit <b>3737</b>	

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>		5,556,379	9/17/1996	Wolfenbarger	604	49	2/27/1995
		5,597,345	1/28/1997	Young	451	165	6/20/1994
		5,601,526	2/11/1997	Chapelon et al.	601	3	12/21/1992
		5,628,743	5/13/1994	Cimino	604	22	12/21/1994
		5,657,760	8/19/1997	Ying et al.	128	660.03	1/11/1996

## U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*[Signature]*

DATE CONSIDERED

12-12-07

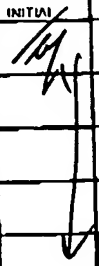
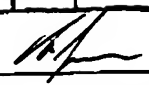
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-A820  
(also form PTO-1449)

PO3VH7V05

Patent and Trademark Office \* U.S. DEPARTMENT OF COMMERCE

SHEET 6 OF 11

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. <b>018,297,703</b>		APPLICATION NO. <b>10/729,628</b>		
				APPLICANT(S) <b>Pal et al.</b>				
				FILING DATE <b>12/04/03</b>		GROUP ART UNIT <b>3737</b>		
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,695,500	12/9/1997	Taylor et al.	606	130	4/6/1994	
		5,697,912	12/16/1997	Smith et al.	606	80	11/9/1994	
		5,711,299	1/27/1998	Mauwaring et al.	128	653.1	1/26/1996	
		5,725,478	3/10/1998	Saad	600	157	3/14/1996	
		5,730,372	3/24/1998	Bradley	241	29	4/29/1996	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. <b>018.997703</b>		APPLICATION NO. <b>10/729,628</b>		
				<b>Pal et al.</b> FILING <b>12/04/03</b> GROUP ART <b>3737</b>				
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,730,719	3/24/1998	Edwards	604	22	8/28/1996	
		5,779,644	7/14/1998	Eberle et al.	600	463	9/11/1996	
		5,797,871	8/23/1998	Wolfenbarger, Jr.	604	49	5/7/1996	
		5,810,765	9/22/1998	Odla	604	31	6/5/1995	
		5,820,581	10/13/1998	Wolfenbarger, Jr.	604	49	3/21/1996	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO	
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				Pal et al.		GROUP ART 3737		
				FILING 12/04/03				
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		5,871,515	2/16/1999	Wiklund et al.	607	36	8/27/1998	
		5,897,578	4/27/1999	Wiklund et al.	607	36	8/27/1998	
		5,902,264	5/11/1999	Toso et al.	604	27	4/25/1997	
		5,919,215	7/6/1999	Wiklund et al.	607	36	8/27/1998	
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**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

 ATTY DOCKET NO.  
 018.997703

 APPLICATION NO.  
 10/729.628

Pal et al.

 FILING  
 12/04/03

 GROUP ART  
 3737

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	5,950,629	9/14/1999	Taylor et al.	128	897	4/28/1994
	6,022,354	2/8/2000	Mercuri et al.	606	80	12/4/1998
	6,045,555	4/4/2000	Smith et al.	606	80	12/10/1997
	6,080,155	6/27/2000	Michelson	606	61	2/27/1995

**U.S. PATENT APPLICATION PUBLICATIONS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER

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